

Title (en)

Method, system and storage medium for managing energy within a predominantly closed power system.

Title (de)

Verfahren, System und Speichermedium zum Verwalten von Energie in einem vorrangig geschlossenen Energiesystem.

Title (fr)

Procédé, système et support de données pour gérer l'énergie dans un système d'alimentation essentiellement fermée.

Publication

**EP 2595014 A2 20130522 (EN)**

Application

**EP 12192068 A 20121109**

Priority

US 201113296987 A 20111115

Abstract (en)

One embodiment of the present invention provides an energy-management system for managing energy within a predominantly closed power system. During operation, the system obtains one or more control actions that control energy transitions of a plurality of components, receives transitional characteristics associated with the components, and schedules the energy transitions by generating a set of offsets. A respective offset results in a delay of at least one energy transition.

IPC 8 full level

**H02J 3/14** (2006.01)

CPC (source: EP US)

**G05B 15/02** (2013.01 - EP US); **H02J 3/003** (2020.01 - EP US); **H02J 3/14** (2013.01 - EP US); **H02J 3/38** (2013.01 - EP US); **H02J 2203/20** (2020.01 - EP US); **H02J 2310/44** (2020.01 - EP US); **Y02B 70/3225** (2013.01 - EP); **Y02E 60/00** (2013.01 - EP); **Y02T 50/50** (2013.01 - EP US); **Y04S 10/12** (2013.01 - US); **Y04S 20/222** (2013.01 - EP); **Y04S 40/20** (2013.01 - EP)

Citation (applicant)

- EDUARDO F. CAMACHO; CARLOS BORDONS: "Model Predictive Control", 2007, SPRINGER-VERLAG
- F. BORRELLI; A. BEMPORAD; M. MORARI: "Constrained Optimal Control and Predictive Control for Linear and Hybrid Systems", 2010, SPRINGER-VERLAG

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FR3023262A1; US11018521B2; WO2015172857A1; EP2863510A2; WO2015059544A2; EP2961022A1; US9471080B2

Designated contracting state (EPC)

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